

## WHAT IS PTOSIS? DROOPY EYELID

Ptosis is the medical term for drooping of the upper eyelid, a condition that may affect one or both eyes. When the edge of the upper eyelid falls, it may block the upper field of your vision. The ptosis may be mild - in which the lid partially covers the pupil, or severe - in which the lid completely covers the pupil. Ptosis that is present at birth is called congenital ptosis.

### What are the causes?

In children, the most common cause is improper development of the levator muscle, the major muscle responsible for elevating the upper eyelid. With adults, it may occur as a result of aging, trauma, or muscular or neurologic disease. As you get older, the tendon that attaches the levator muscle to the eyelid stretches and the eyelid falls, covering part of the eye. It is not uncommon for a patient to develop upper eyelid ptosis after cataract surgery. Ptosis can also be caused by injury to the oculomotor nerve (the nerve that stimulates the levator muscle), or the tendon connecting the levator muscle to the eyelid.

### Are there other conditions associated with ptosis?

Children with ptosis may also have amblyopia ("lazy eye"), strabismus (eyes that are not properly aligned or straight), refractive errors, astigmatism, or blurred vision.

The condition may be the first sign of myasthenia gravis, a disorder in which the muscles become weak and tire easily. Ptosis is also present in people with Horner's syndrome, a neurologic condition that affects one side of the face and indicates injury to part of the sympathetic nervous system.

### What are the symptoms?

Symptoms of ptosis include difficulty keeping your eyes open, eyestrain, and eyebrow aching from the increased effort needed to raise your eyelids, and fatigue, especially when reading. In severe cases, it may be necessary to tilt your head back or lift the eyelid with a finger in order to see out from under the drooping eyelid(s).

### What are the treatments?

Congenital ptosis is treated surgically, with the specific operation based on the severity of the ptosis and the strength of the levator muscle. Ptosis surgery usually involves tightening the levator muscle in order to elevate the eyelid to the desired position. In severe ptosis, the levator muscle is extremely weak and a "sling" operation may be performed, enabling the forehead muscles

to elevate the eyelid(s).

The main goals of ptosis surgery are elevation of the upper eyelid to permit normal visual development and a full field of vision, and symmetry with the opposite upper eyelid. It is important to realize that when operating on an abnormal muscle, completely normal eyelid position and function after surgery may not be possible to achieve.

Children with ptosis should be followed closely, both before and after surgery, with eye exams on a regular basis to ensure that their vision is developing properly .

Surgery in adults and older children is usually performed as an outpatient procedure under local anesthesia, and with the patient lightly sedated with oral and/or intravenous medications. Some surgeons prefer to use general anesthesia, especially with younger children, in which case the patient will sleep through the operation.

### What are the risks and complications?

In addition to the removal of the sutures, minor bruising or swelling may be expected and will likely go away in one to two weeks. Bleeding and infection, which are potential risks with any surgery, are very uncommon. As with any medical procedure, there may be other inherent risks that should be discussed with your surgeon.

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